

Application No. 10/766,258
Amendment dated March 17, 2006
Reply to Final Office Action of January 17, 2006

Docket No. 1232-5266

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-14 (CANCELLED):

15 (PREVIOUSLY PRESENTED): An exposure apparatus having an exposure mode that transfers a pattern on a reticle onto an object, and a standby mode that waits for exposure, said exposure apparatus comprising:

an optical system having plural optical elements, for introducing the exposure light to the object in the exposure mode; and

a mechanism for allowing the exposure light to enter the reticle and all of the plural optical elements in the standby mode, and for preventing the exposure light from entering the object in the standby mode.

16 (PREVIOUSLY PRESENTED): An exposure apparatus according to claim 15, further comprising a light source that emits the exposure light in the standby mode.

17 (PREVIOUSLY PRESENTED): An exposure apparatus according to claim 15, wherein the exposure light is extreme ultraviolet light having a wavelength of 20 nm or less.

18 (PREVIOUSLY PRESENTED): An exposure apparatus according to claim 15, wherein said mechanism includes:

an absorption member that absorbs the exposure light;

a drive mechanism for driving said absorption member between a first position on an optical path of the exposure light, and a second position apart from the optical path of the

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exposure light; and

a controller for controlling driving by said drive mechanism so that the absorption member absorbs the exposure light in the standby mode.

19 (PREVIOUSLY PRESENTED): An exposure apparatus according to claim 18, further comprising a projection optical system for projecting the pattern onto the object, and wherein the first position is located between said projection optical system and the object.

20 (PREVIOUSLY PRESENTED): An exposure apparatus according to claim 15, further comprising a stage for movably supporting the object, wherein said mechanism includes a drive mechanism for driving the stage to move the object to a position apart from an optical path of the exposure light.

21 (PREVIOUSLY PRESENTED): An exposure apparatus according to claim 20, wherein said mechanism further includes:

an absorption member that absorbs the exposure light, said absorption member being driven by said drive mechanism between a first position on an optical path of the exposure light, and a second position apart from the optical path of the exposure light; and

a controller for controlling driving by said drive mechanism so that the absorption member absorbs the exposure light in the standby mode.

22 (PREVIOUSLY PRESENTED): A standby method for waiting for exposure that transfers a pattern on a reticle onto an object absorbed by a wafer chuck through exposure light and an optical system, said method comprising the steps of:

irradiating the exposure light to the reticle and all of optical elements included in

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the optical system; and

shielding the object from the exposure light during said irradiating step.

23 (PREVIOUSLY PRESENTED): A method according to claim 22, wherein an optical path of the light is maintained in an atmosphere under vacuum or reduced pressure.

24 (PREVIOUSLY PRESENTED): An exposure method that illuminates a pattern formed on a reticle and transfers the pattern onto an object absorbed by a wafer chuck through an optical system that includes an optical element, said step comprising the steps of:

determining whether temperatures of the reticle and all of optical elements included in the optical system are in steady states; and

irradiating the exposure light onto the reticle and all of optical elements included in the optical system while preventing the exposure light from entering the object, when said determining step determines that the temperature distributions are not in the steady states.

25 (PREVIOUSLY PRESENTED): A device fabrication method comprising the steps of: exposing an object with by using an exposure apparatus; and developing the object that has been exposed,

wherein the exposure apparatus has an exposure mode that transfers a pattern on a reticle onto the object, and a standby mode that waits for exposure, said exposure apparatus including:

an optical system having plural optical elements, for introducing the exposure light to the object in the exposure mode; and

a mechanism for allowing the exposure light to enter the reticle and all of the

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plural optical elements in the standby mode, and for preventing the exposure light from entering the object in the standby mode.